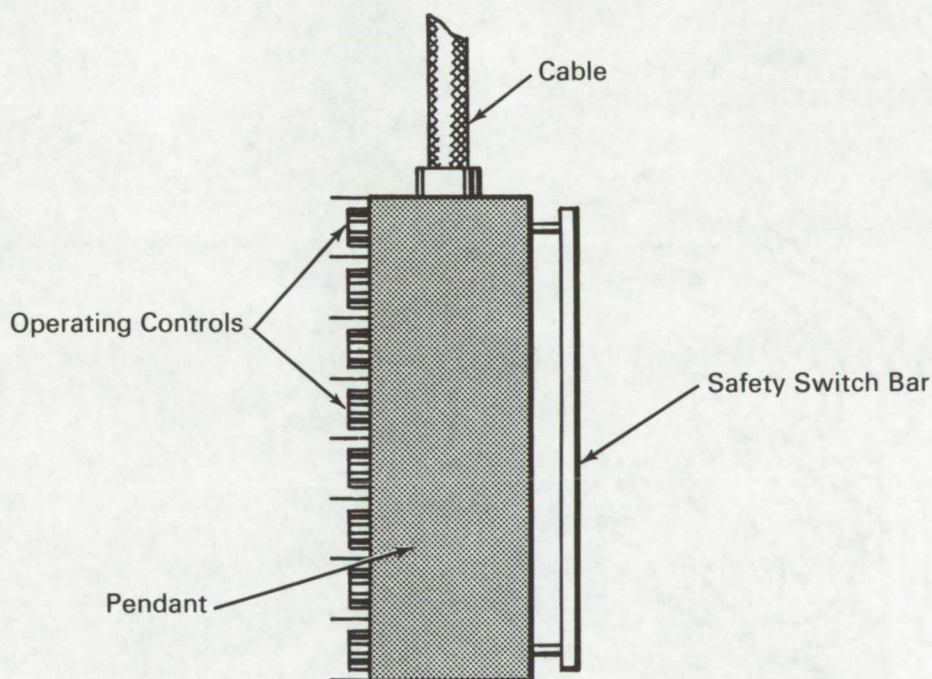


# NASA TECH BRIEF



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## Safety Switch Permits Emergency Bridge Crane Shutdown



### The problem:

During bridge crane operation, safety requirements make it desirable to have not only local control through the crane operation buttons on the pendant, but also capability for an immediate power cutoff to the crane in an emergency or a failure in the pendant circuit.

### The solution:

Provide a safety switch on the crane control pendant that must be closed to operate the crane.

### How it's done:

The main power supply to the crane is controlled by a safety switch mounted on the control pendant.

The safety switch, operated by depressing a bar at the back of the control pendant, is normally off, and must be held in the closed position by the operator. Both the safety switch bar and operating controls can be manipulated with one hand. In an emergency the operator need only remove his hand from the pendant to shut off power to the crane.

### Notes:

1. This device eliminates the need to station personnel at the main master control switch as a safety measure during crane operation.

(continued overleaf)

2. This development is in conceptual stage only, and as of date of publication of this Tech Brief, neither a model or prototype has been constructed.
3. Inquiries concerning this innovation may be directed to:

Technology Utilization Officer  
Marshall Space Flight Center  
Huntsville, Alabama, 35812  
Reference: B66-10168

**Patent status:**

No patent action is contemplated by NASA.

Source: Edward J. R. Long  
of North American Aviation, Inc.  
under contract to  
Marshall Space Flight Center  
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